



National Aeronautics and  
Space Administration  
**Langley Research Center**  
Hampton, VA 23681-2199

**Educational Product**

**Educators**

**Grades 6-8**

EP-2003-06-08-LARC

# NASA CONNECT™

NASA CONNECT™ is a research-, inquiry-, and standards-based annual series of **FREE** integrated math, science, and technology instructional programs for students in grades 6–8. Each program in this Emmy®-award-winning series has three components: (1) a 30-minute television broadcast, which can be viewed live or taped for later use; (2) a companion educator guide, including a hands-on activity; and (3) an interactive web activity that provides educators an opportunity to integrate technology in the classroom setting. These three components — television broadcast, educator guide, and web activity — are designed as an integrated instructional package.

## Use the Power of Technology to Make the NASA Connection\*

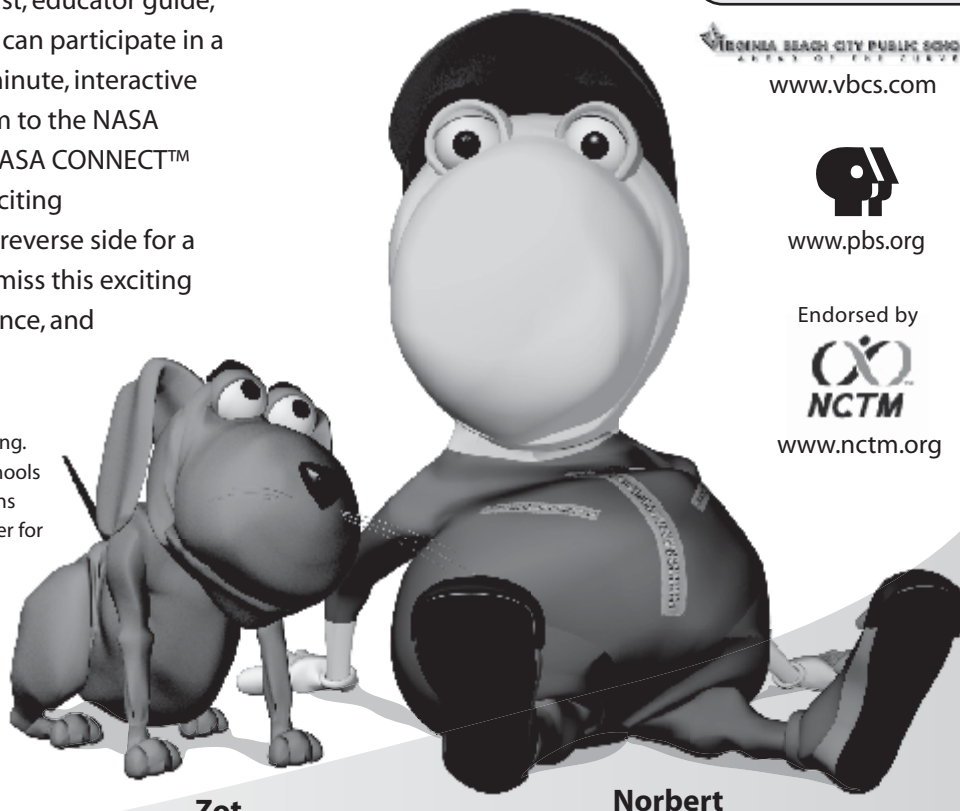
This opportunity is offered as a part of NASA LIVE™: (Learning through Interactive Videoconferencing Experiences), a program produced by NASA Langley's Center for Distance Learning.

Now, in addition to the broadcast, educator guide, and web activity, your students can participate in a **FREE** virtual field trip. This 45-minute, interactive videoconference connects them to the NASA experts featured in each new NASA CONNECT™ program, the latest research, exciting demonstrations, and more. See reverse side for a list of scheduled events. Don't miss this exciting opportunity to bring math, science, and technology to life!!

\*Students must have viewed the NASA CONNECT™ broadcast prior to participating. Participation is limited to the first four schools for each original event. Additional sessions can be scheduled upon request. To register for a NASA LIVE™ event and additional information, visit <http://live.larc.nasa.gov>.

### Rights and Use

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### FREE CLASSROOM MENTORS

The AIAA provides classroom mentors to assist with the hands-on activities. For more information, visit the NASA CONNECT™ web site or e-mail [nasaconnect@aiaa.org](mailto:nasaconnect@aiaa.org).



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Check the back for a list of programs in the 2003–2004 NASA CONNECT™ series and for more information about obtaining the programs.

2003–2004 SEASON

[connect.larc.nasa.gov](http://connect.larc.nasa.gov)

# NASA CONNECT™

2003-2004 SEASON

Inspiring the next generation of explorers as only NASA can.

2003-2004 Season. Grades 6-8.  
<http://connect.larc.nasa.gov>

## Program 1: The Centennial of Flight Special Edition: Problem Solving: The "Wright" Math (R)\*

**Starts airing:** Thursday, September 18, 2003,  
11 a.m.-11:30 a.m. EDT

NASA engineers and researchers use problem-solving skills to develop advanced aerospace vehicles that are adaptable to diverse mission scenarios.

**NASA Research:** Morphing Project

## Program 2: Virtual Earth

**Starts airing:** Thursday, October 16, 2003,  
11 a.m.-11:30 a.m. EDT

**NASA LIVE Event:** November 13, 2003

NASA researchers and scientists use data analysis and measurement to develop a scientific understanding of the Earth system and its response to natural and human-induced changes to enable improved prediction of climate, weather, and natural hazards for present and future generations.

**Mathematics concepts:** Data Analysis and Measurement

**Science concepts:** Earth as a System

**NASA Research:** Earth System Science

## Program 3: Better Health from Space to Earth

**Starts airing:** Thursday, November 20, 2003,  
11 a.m.-11:30 a.m. EST

NASA researchers and scientists use measurement and estimation skills to help characterize health, environmental, and other operational human biomedical risks associated with living in space and to identify strategies, tools, or technologies to prevent or reduce those risks.

**Mathematics concepts:** Measurement and Estimation

**Science concepts:** Life Science and Health

**NASA Research:** Bioastronautics

## Program 4: Festival of Flight Special: Opening Space for Next Generation Explorers (R)\*

*(Produced for NASA CONNECT™ by NASA Marshall TV)*

**Starts airing:** Thursday, December 11, 2003,  
11 a.m.-11:30 a.m. EST

NASA's Space Launch Initiative (SLI) Program will ultimately move the nation from the explorations of the Mercury, Gemini, Apollo, and Space Shuttle missions to a new period of pioneering when people and businesses are more routinely traveling, working, and living in space.

**NASA Research:** Space Launch Initiative (SLI), Second Generation Reusable Launch Vehicle (RLV) Program

## Program 5: PSA, The Astronaut's Helper

*(Produced for NASA CONNECT™ by NASA Ames TV)*

**Starts airing:** Thursday, January 22, 2004,  
11 a.m.-11:30 a.m. EST

**NASA LIVE Event:** January 22, 2004

NASA engineers use geometry and algebra to develop and test the Personal Satellite Assistant (PSA), an autonomous robot to support future space missions.

**Mathematics concepts:** Geometry and Algebra

**Science concepts:** Physical Science

**NASA Research:** Personal Satellite Assistant (PSA)

## Program 6: Data Analysis and Measurement: Dancing in the Night Sky (R)\*

**Starts airing:** Thursday, February 19, 2004,  
11 a.m.-11:30 a.m. EST

NASA engineers and researchers use data analysis and measurement to study the auroras, key regions of the Earth's geospace or space environment.

**NASA Research:** IMAGE Satellite, POLAR Satellite, TIMED Satellite

## Program 7: The Venus Transit

**Starts airing:** Thursday, March 18, 2004,  
11 a.m.-11:30 a.m. EST

**NASA LIVE Event:** April 15, 2004

NASA researchers and scientists use measurement, ratios, and graphing to set the scale of the solar system, study the planet Venus, and investigate the solar-planetary connection.

**Mathematics concepts:** Measurement, Ratios, and Graphing

**Science concepts:** Physical Science

**NASA Research:** SOHO Satellite, TRACE Satellite

## Program 8: Measurement, Ratios, and Graphing: Who Added the "Micro" to Gravity? (R)\*

**Starts airing:** Thursday, April 15, 2004,  
11 a.m.-11:30 a.m. EDT

NASA researchers and scientists use measurement, ratios, and graphing to demonstrate the principles of microgravity.

**NASA Research:** Microgravity Research Program

## Program 9: The "A" Train Express

**Starts airing:** Thursday, May 20, 2004,  
11 a.m.-11:30 a.m. EDT

**NASA LIVE Event:** June 3, 2004

Take a ride on the "A" Train Express. NASA researchers and scientists use satellites and problem solving to improve weather prediction and our understanding of aerosols and clouds.

**Mathematics concepts:** Problem Solving

**Science concepts:** Weather and Meteorology

**NASA Research:** CALIPSO Satellite, CLOUDSAT Satellite

## 1 REGISTER

Register online at  
[connect.larc.nasa.gov](http://connect.larc.nasa.gov)

## 2 ACCESS

### How can I get the television broad- cast?

- The programs are up-linked in KU- and C-band. The satellite coordinates are listed on the NASA CONNECT™ web site.
- NASA CONNECT™ programs air on PBS, NASA TV, Channel One, and on many Cable Access Channels. Check our web site for stations in your area.
- Programs are available online. See web site for details.
- Video copies of the broadcast can be obtained from the NASA Educator Resource Center in your state, <http://education.nasa.gov/ercn>, or from NASA CORE <http://core.nasa.gov>, or call toll free, 1-866-776-CORE.

## 3 INTEGRATE

Integrate NASA CONNECT™ into your classroom to inspire your students and to enhance learning

\* (R) indicates a repeat program from the 2002-2003 NASA CONNECT™ season.



See web site for NCTM, NRC, ITEA, and ISTE standards covered in each program.